HYDRON BLUE PAT.

AND

HYDRON VIOLET PAT.

PRINTED ON COTTON

TRADE MARK

CASSELLA COLOR COMPANY

(American Branch of Leopold Cassella & Co., G. m. b. H.)

182 and 184 Front Street,

NEW YORK.

Boston: 39 Oliver Street.
Philadelphia: 126 and 128 South Front Street.
Providence: 64 Exchange Place.
Atlanta: 47 North Pryor Street.
Montreal, Canada, 59, William Street.

No. 3434

LEOPOLD CASSELLA & Co., G. m. b. H., FRANKFORT o. M.

Works at Mainkur near Frankfort o. M.

HYDRON BLUE PAT.

AND

HYDRON VIOLET PAT.

PRINTED ON COTTON

CASSELLA COLOR COMPANY

182 AND 184 FRONT STREET

NEW YORK

BOSTON: 39 OLIVER STREET

PHILADELPHIA: 126 AND 128 SOUTH FRONT STREET

PROVIDENCE: 64 EXCHANGE PLACE

ATLANTA: 47 NORTH PRYOR STREET

MONTREAL: CANADA: 59 WILLIAM STREET.

HYDRON BLUE PAT. AND HYDRON VIOLET PAT.

PRINTED ON COTTON

Hydron Blue G Paste 40%
Hydron Blue R Paste 40%
Hydron Dark Blue G Paste 40%
Hydron Violet B Paste 40%

General Printing Recipe for Blue, Violet and Grey.

20 parts	30 parts	50—60 parts		dyestuff paste 40%* are mixed with
40 „	40 „	40	„	glycerine and
330 „	295 „	210	„	hot water; then
20 „	25 „	30	„	soda ash, as well as
40 „	40 „	60	„	grape sugar (glucose),
20 „	30 „	50	„	Dissolving Salt B,
30 „	40 „	50	„	Hyraldite C extra 1:1 (dissolved in water) are added, the whole being heated together for abt. ¼ hour to about 60° C. (140° F.); when all has been dissolved, it is mixed with
500 „	500 „	500	„	starch-tragacanth thickening.
about 1000 parts.				

Starch-Tragacanth Thickening:

130 parts	wheat starch are boiled with
520 „	water and
350 „	tragacanth solution 65:1000.
1000 parts.	

Reduction for Light Shades:

600 parts	starch-tragacanth thickening,
40 „	glycerine,
10 „	Dissolving Salt B ,
20 „	Hyraldite C extra 1:1 and
330 „	water are mixed together.
1000 parts.	

* The dyestuffs in the 20% paste may be printed according to the same directions, but in such case double the quantity of dyestuff paste and correspondingly less water should be used.

Hydron Violet B Paste 40% may be printed with caustic soda lye of 77° Tw. (10–20 parts per 1000 parts print paste) instead of with soda, somewhat more reddish shades being thereby obtained. Pattern No. 4 has been produced in this manner, with the addition of caustic soda lye (15 parts per 1000 parts print paste), the printing directions in other respects being exactly the same as given above.

Printing Recipe for Black:

100	parts	Hydron Dark Blue G Paste 40%,
20	„	Helindon Yellow 3GN Paste and
10	„	Helindon Brown G Paste are mixed with
60	„	glycerine and
160	„	hot water;
30	„	caustic soda lye of 77° Tw. are then added, as well as
60	„	grape sugar (glucose),
50	„	Dissolving Salt B,
20	„	hydrosulphite conc. powder and
40	„	Hyraldite C extra (in powder), the whole being heated together for about ¼ hour to abt. 60° C. (140° F.). When all has been dissolved, it is mixed with
450	„	starch-tragacanth thickening.
approx. 1000	parts.	

Printing: The pieces should not be too sharply dried in the printing, nor should they be allowed to remain on the hot plates of the hot-flue.

The print pastes keep very well for a considerable time. It is a great advantage to leave the pastes standing for a few hours or overnight before use, as more intense prints are in this way obtained.

Steaming: The steaming is done by a passage of about five minutes in a Mather and Platt. The steam should be as full and as free from air as possible; overheated steam must be avoided, a certain moisture being in fact necessary for the fixing.

Washing: For the washing, the goods should be soured off, if possible full-width, with the addition of a little bichrome (4—8 oz bichrome and 8 oz hydrochloric acid per 10 gallons), then washed, soaped, rinsed, and dried.

Brighter shades may be obtained by passing the goods, after the rinsing, through a weak perborate bath (¾—1½ oz per 10 gallons) at 40—50° C. (105—120° F.), or adding a little perborate to the soap bath.

The washing need not take place immediately after the steaming; it is on the contrary a great advantage to leave the goods lying for some time exposed to the air, or to hang them up overnight, by which means the shades become more fully developed.

Chloring: The Hydron Colour prints may if necessary be chlored in the ordinary manner in order to clear the white.

Hydron Colours in Combination with Other Colours.

Hydron Blue and Hydron Violet may be very easily combined with other Vat Colours which are likewise printed with Hyraldite and alkali; by this means the greatest variety of mode shades and also blacks of most excellent fastness may be obtained.

Hydron Colours with Illuminating Colours.

The Illuminating Colours which come in the first place into consideration are the other dyestuffs which are fixable by a short steaming, therefore Vat Colours principally. For Red, Paranitraniline Red may likewise be used.

Basic Colours can also be printed next to Hydron Blue and Hydron Violet. The goods are in such case after the steaming taken first through a tartar emetic bath, washed, soaped, rinsed, and dried.

Hydron Colour Prints with Resist Effects.

White and coloured resist effects may be obtained with prints of Hydron Blue and Hydron Violet by means of zinc chloride resists.

White Resist:

200—150	parts	dry gum are dissolved in
250—200	„	water, then
200—300	„	zinc chloride dissolved in
200—200	„	water, as well as
150—150	„	china clay paste 1:1, are added.
1000	parts.	

The goods are printed first with the resist, dried, and then over-printed with Hydron Colours in accordance with the general directions; hereafter they are steamed in a Mather and Platt, and washed as indicated above.

For *red resists, Paranitraniline Red* is very well suited. Other *coloured effects* may be produced with the coloured zinc chloride resists suitable for resist printing with Immedial Colours. The directions for producing such effects will be found in our "Manual of Dyeing", Vol. IV (No. 2941), pages 70—72.

No. 1. Hydron Blue G pat. Paste 40%, 30 parts per 1000 pts. print paste.

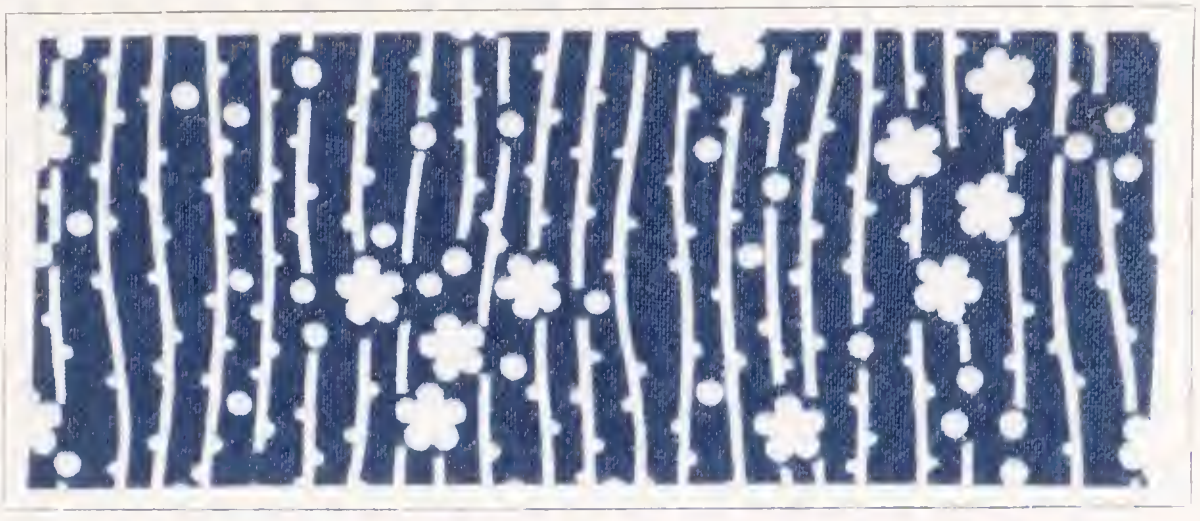
No. 2. Hydron Blue R pat. Paste 40%, 50 parts per 1000 pts. print paste.

No. 3. Hydron Dark Blue G pat. Paste 40%, 60 parts per 1000 pts. print paste.

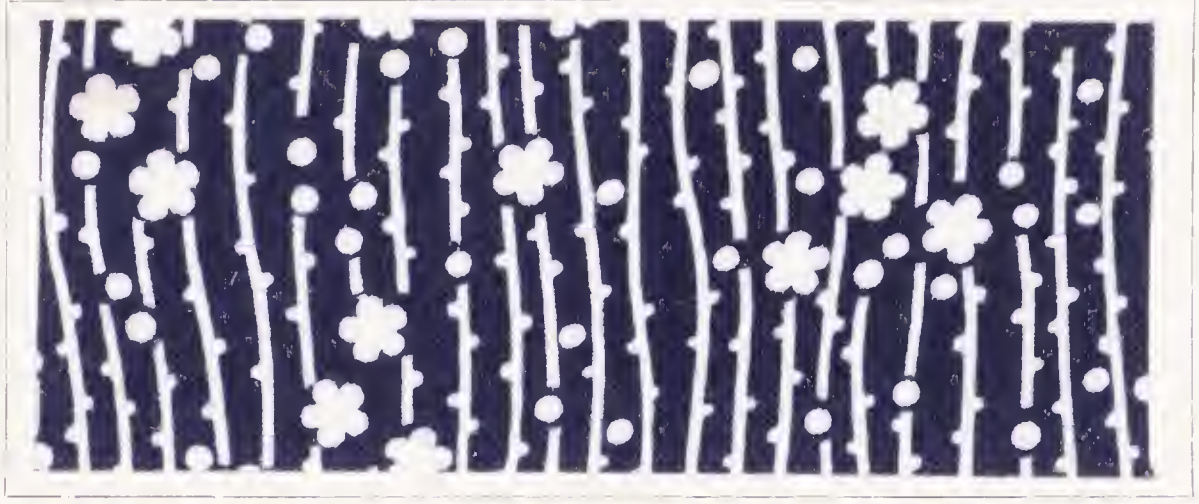
No. 4. Hydron Violet B pat. Paste 40%, 40 parts per 1000 pts. print paste.

HYDRON BLUE PAT. PRINTED ON COTTON

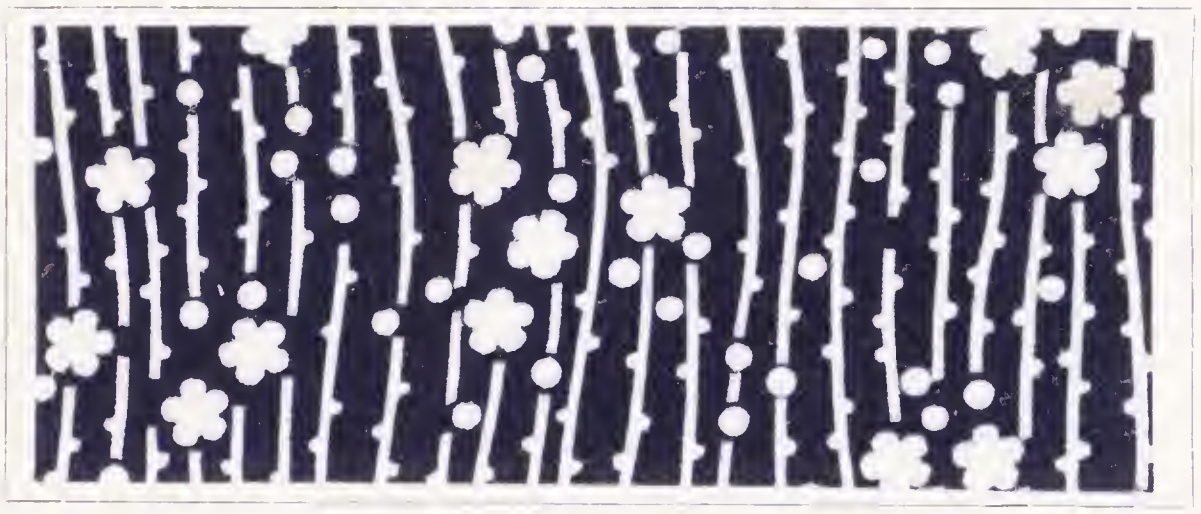
1



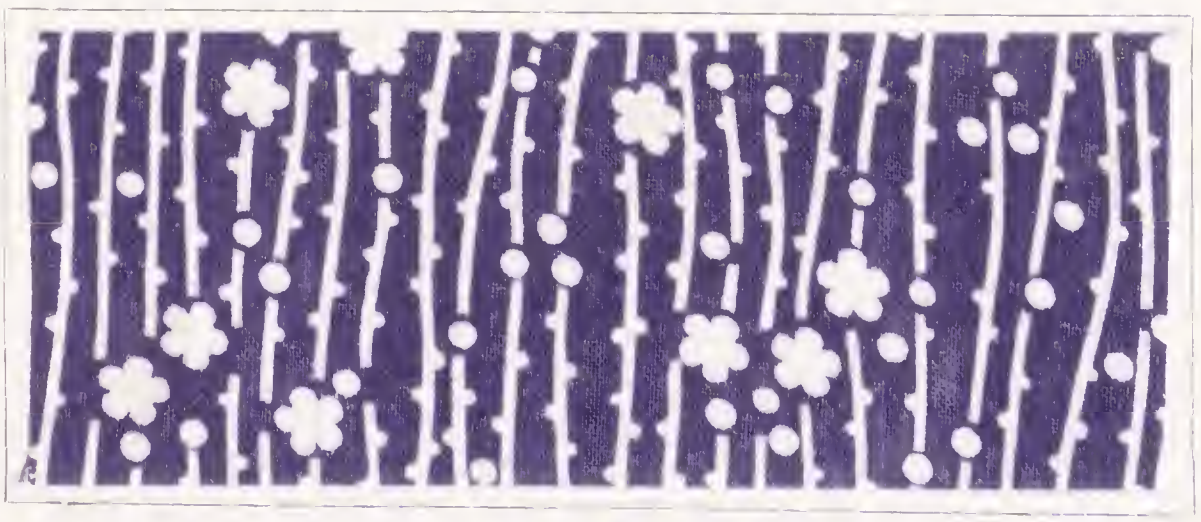
2



3



4



CASSELLA COLOR COMPANY, NEW YORK.

No. 5. *Light Blue:* Hydron Blue G pat. Paste 40%,
20 parts per 1000 pts. print paste.
Dark Blue: Hydron Blue G pat. Paste 40%,
50 parts per 1000 pts. print paste.

No. 6. *Printed on a Beta Naphtol Bottom.*
Red: Paranitraniline Red.
Blue: Hydron Blue G pat. Paste 40%, 50 parts per 1000 pts. print paste.

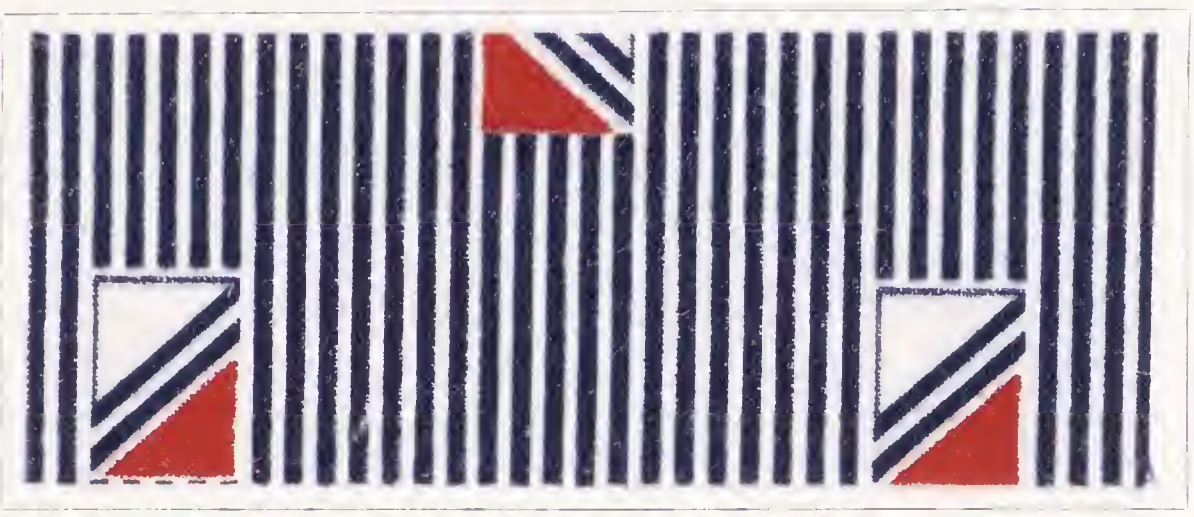
No. 7. Hydron Blue R pat. Paste 40%. 60 parts per 1000 pts. print paste.

No. 8. Hydron Blue R pat. Paste 40%. 50 parts per 1000 pts. print paste.

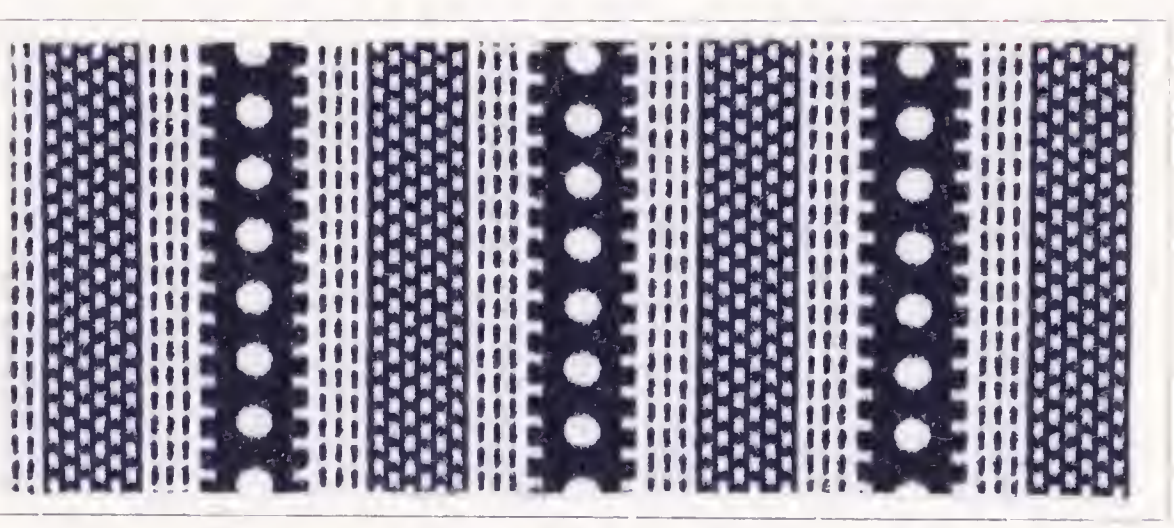
HYDRON BLUE PAT. PRINTED ON COTTON

5

6



7



8

CASSELLA COLOR COMPANY, NEW YORK.

No. 9. Hydron Blue G pat. Paste 40%, 20 parts per 1000 pts. print paste.
Aftertreated with Perborate.

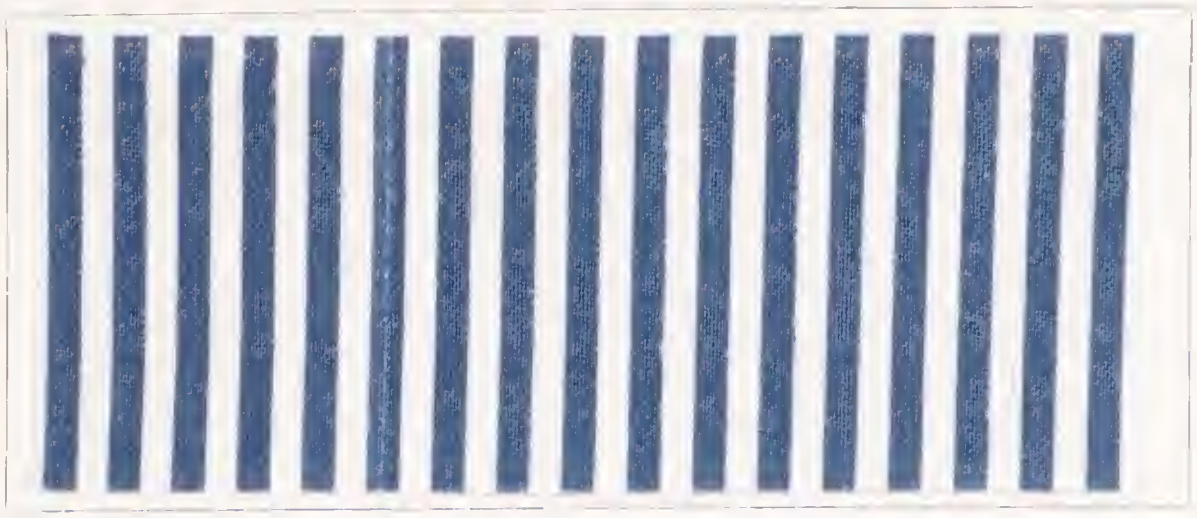
No. 10. Hydron Blue R pat. Paste 40%, 60 parts per 1000 pts. print paste.

No. 11. *Printed on a Beta Naphtol Bottom.*
Red: Paranitraniline Red.
Blue: Hydron Blue R pat. Paste 40%, 60 parts per 1000 pts. print paste.

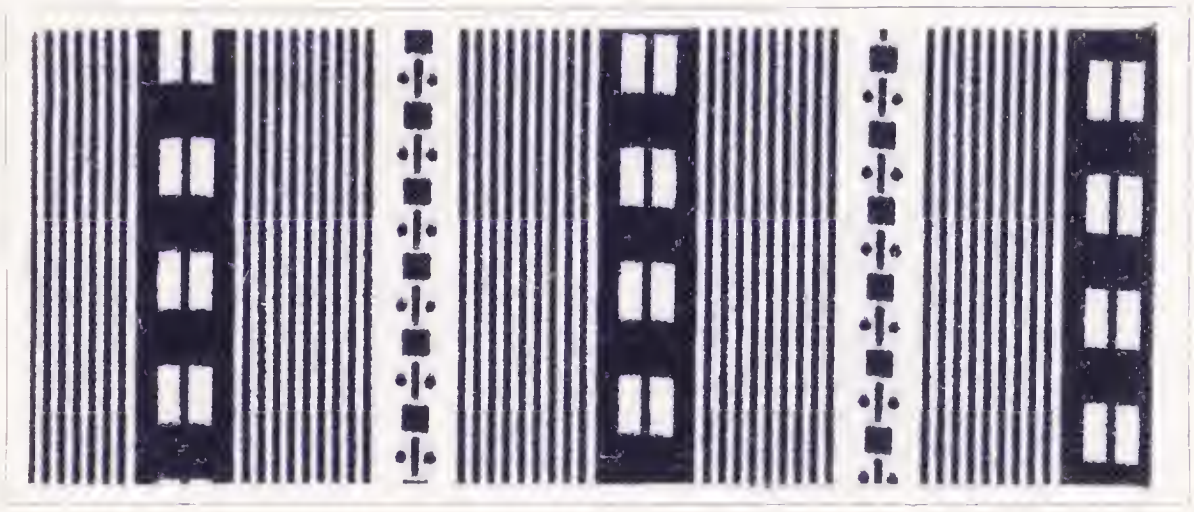
No. 12. *Printed on a Beta Naphtol Bottom.*
Red: Paranitraniline Red.
Blue: Hydron Blue R pat. Paste 40%, 60 parts per 1000 pts. print paste.

HYDRON BLUE PAT. PRINTED ON COTTON

9

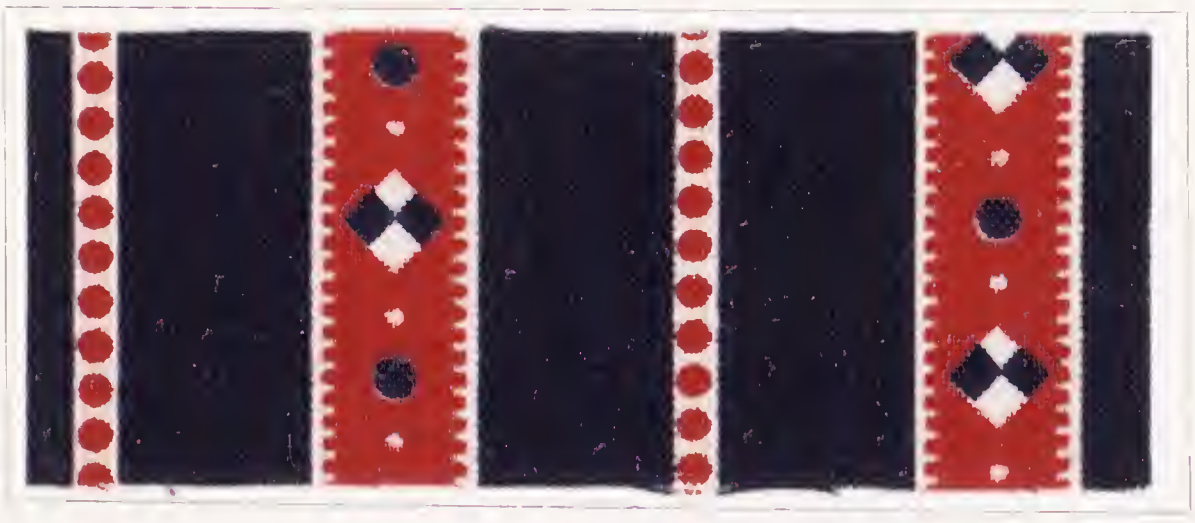


10



11

12



No. 13. *Black:* Hydron Dark Blue G Paste 40%, 100 parts
Helindon Yellow 3GN Paste 20 parts
Helindon Brown G Paste 10 parts
} per 1000 parts print paste.

No. 14. *Grey.* Hydron Dark Blue G pat. Paste 40%, 20 parts
Helindon Brown G Paste 8 parts
} per 1000 parts print paste.

Blue: Hydron Blue R pat. Paste 40%,
50 parts per 1000 pts. print paste.

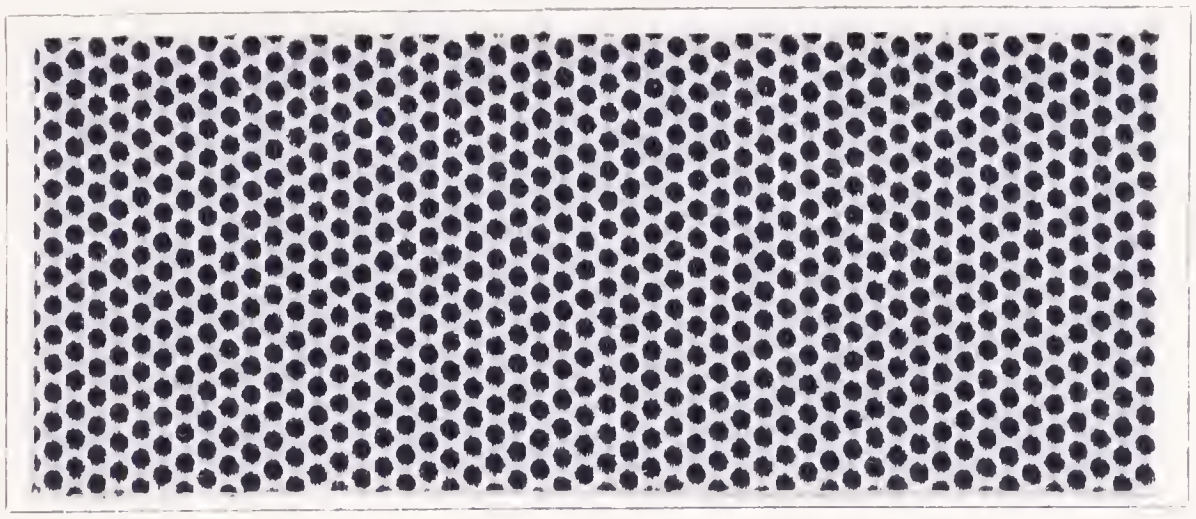
No. 15. *Grey:* Hydron Dark Blue G pat. Paste 40%, 20 parts
Helindon Brown G Paste 8 parts
} per 1000 parts print paste.

Black: Hydron Dark Blue G pat. Paste 40%, 100 parts
Helindon Yellow 3GN Paste 20 parts
Helindon Brown G Paste 10 parts
} per 1000 parts print paste.

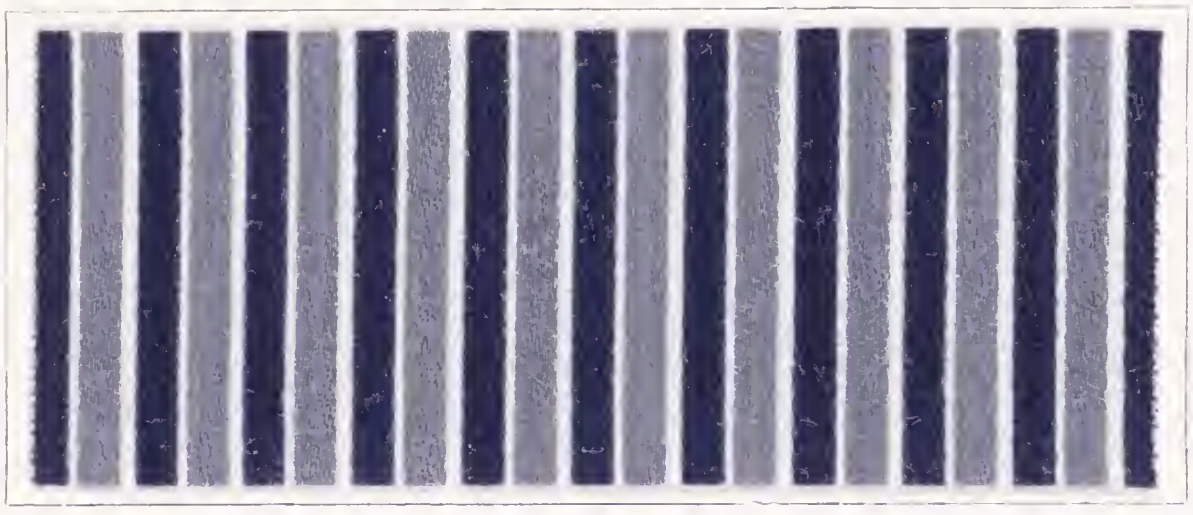
No. 16. *Printed on a Beta Naphtol Bottom.*
Red: Paranitraniline Red.
Blue: Hydron Blue R pat. Paste 40%, 60 parts per 1000 pts. print paste.

HYDRON BLUE PAT. PRINTED ON COTTON

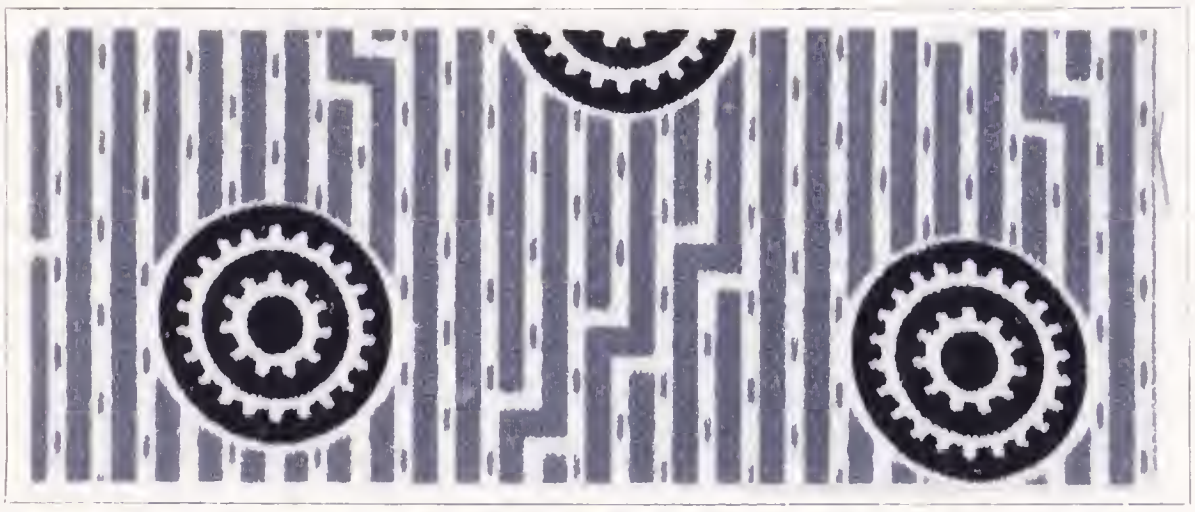
13



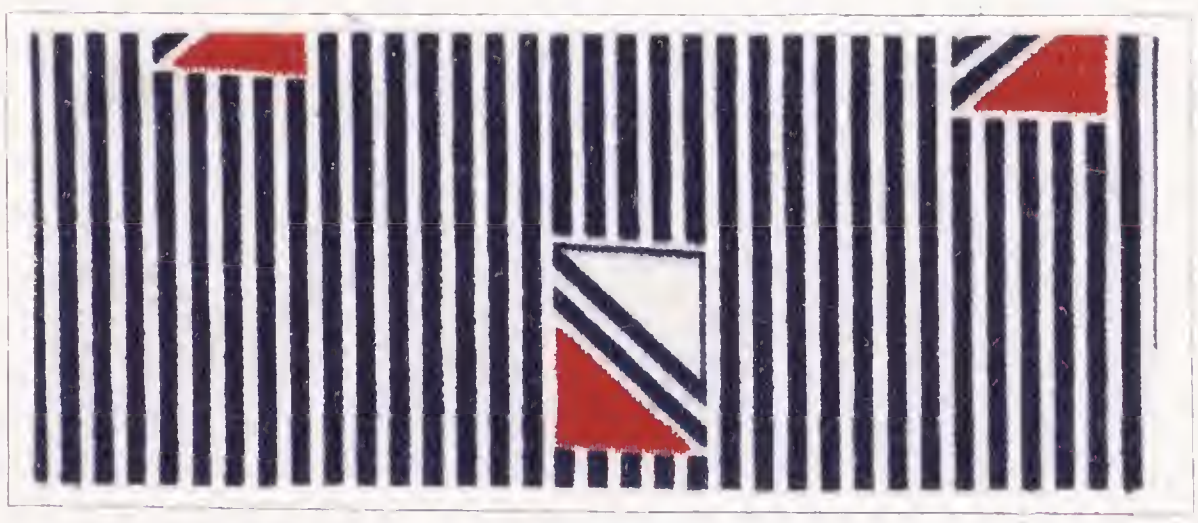
14



15



16



CASSELLA COLOR COMPANY, NEW YORK.

No. 17. Hydron Violet B pat. Paste 40%. 25 parts per 1000 pts. print paste.

No. 18. *Printed on a Beta Naphtol Bottom.*

Red: Paranitraniline Red.

Violet: Hydron Violet B pat. Paste 40%,
50 parts per 1000 pts. print paste.

No. 19. *Light Violet:* Hydron Violet B pat. Paste 40%,
20 parts per 1000 pts. print paste.

Dark Violet: Hydron Violet B pat. Paste 40%,
50 parts per 1000 pts. print paste.

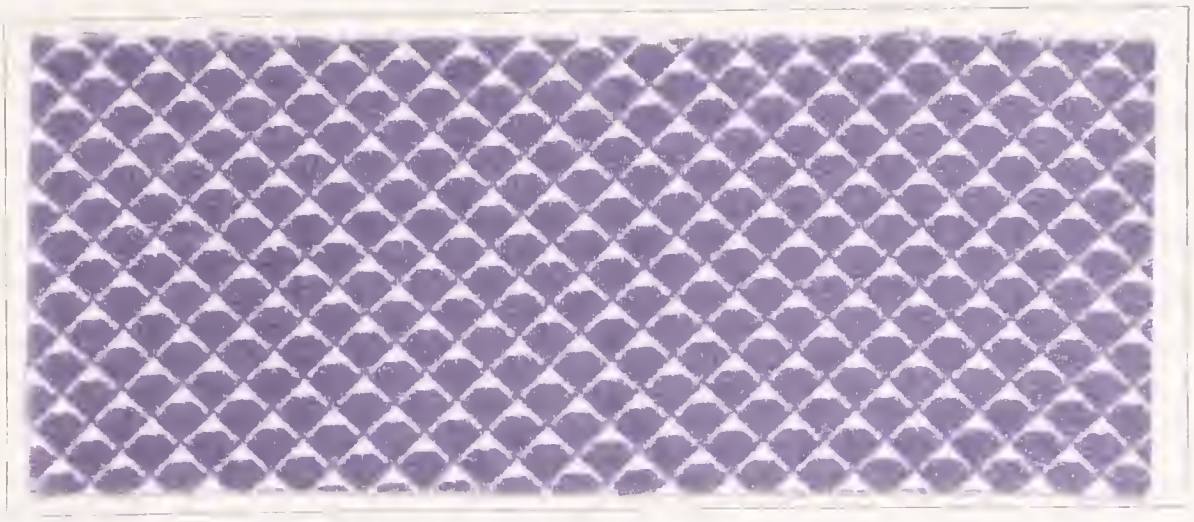
No. 20. *Light Violet:* Hydron Violet B pat. Paste 40%,
20 parts per 1000 pts. print paste.

Black:

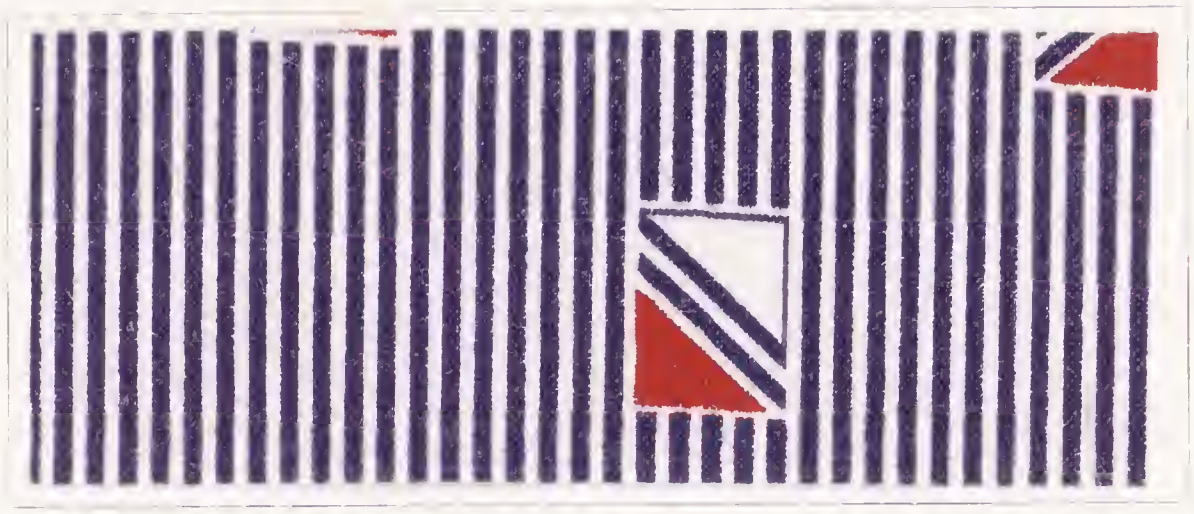
Hydron Dark Blue G pat. Paste 40%,	100 parts	per 1000 parts print paste.
Helindon Yellow 3GN Paste,	20 parts	
Helindon Brown G Paste	10 parts	

HYDRON VIOLET PAT. PRINTED ON COTTON

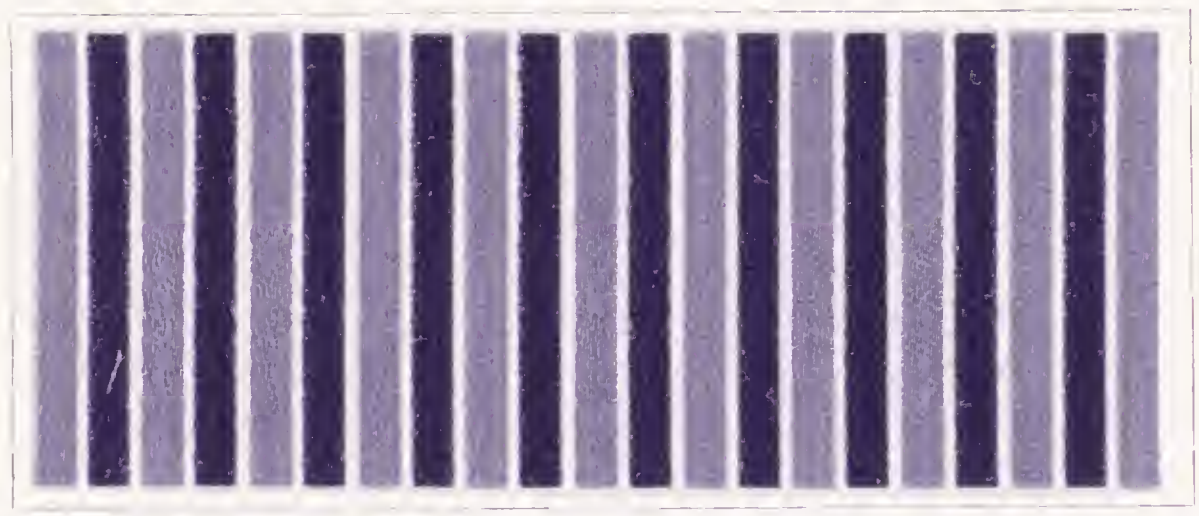
17



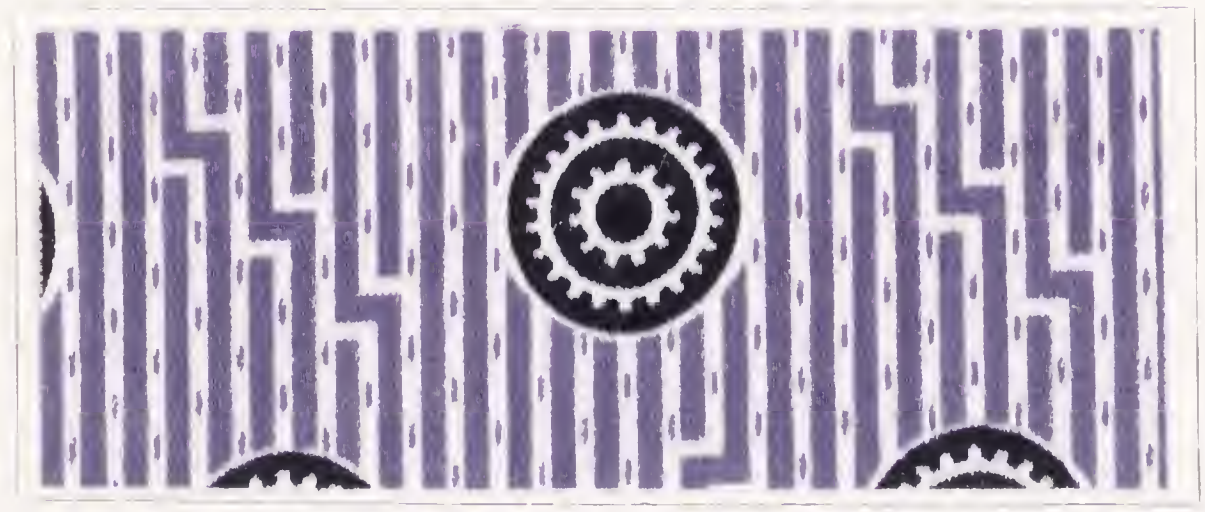
18



19



20



CASSELLA COLOR COMPANY, NEW YORK.

No. 21. Hydron Violet B pat. Paste 40%, 50 parts per 1000 parts print paste.

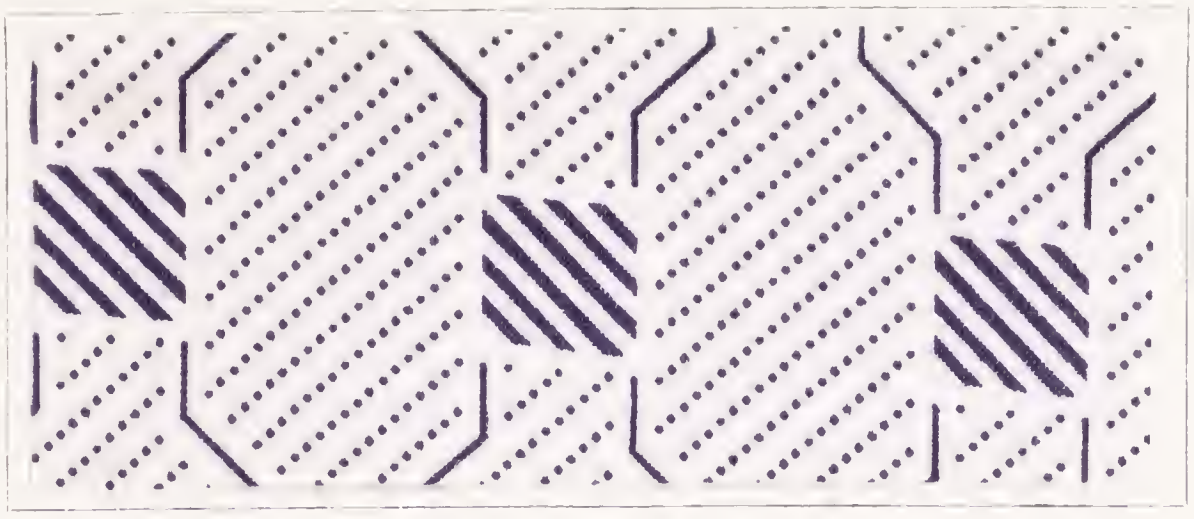
No. 22. Hydron Violet B pat. Paste 40%, 50 parts per 1000 parts print paste.

No. 23. Hydron Violet B pat. Paste 40%, 50 parts per 1000 parts print paste.

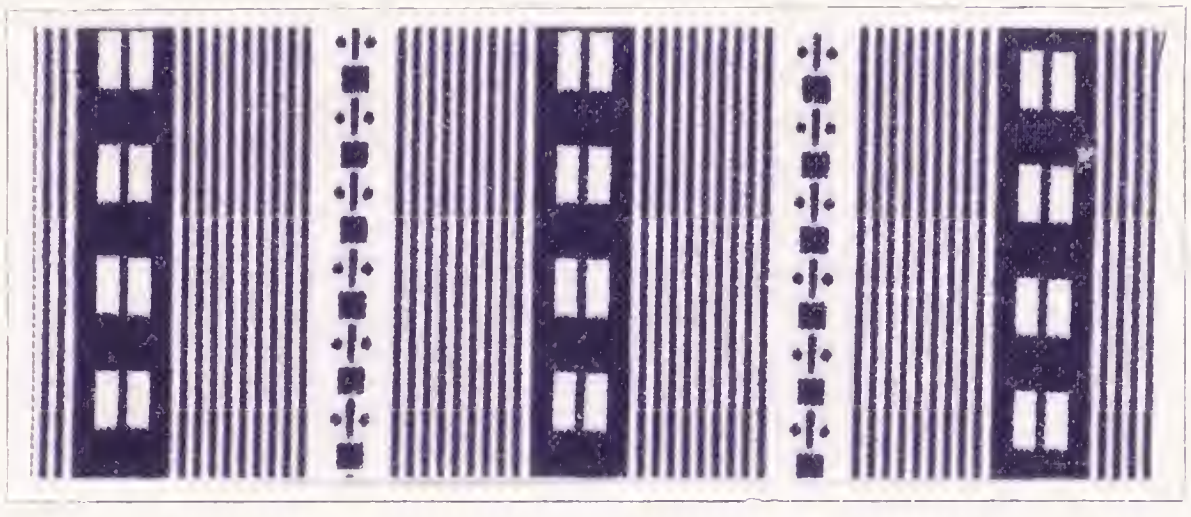
No. 24. Hydron Violet B pat. Paste 40%, 65 parts per 1000 parts print paste.

HYDRON VIOLET PAT. PRINTED ON COTTON

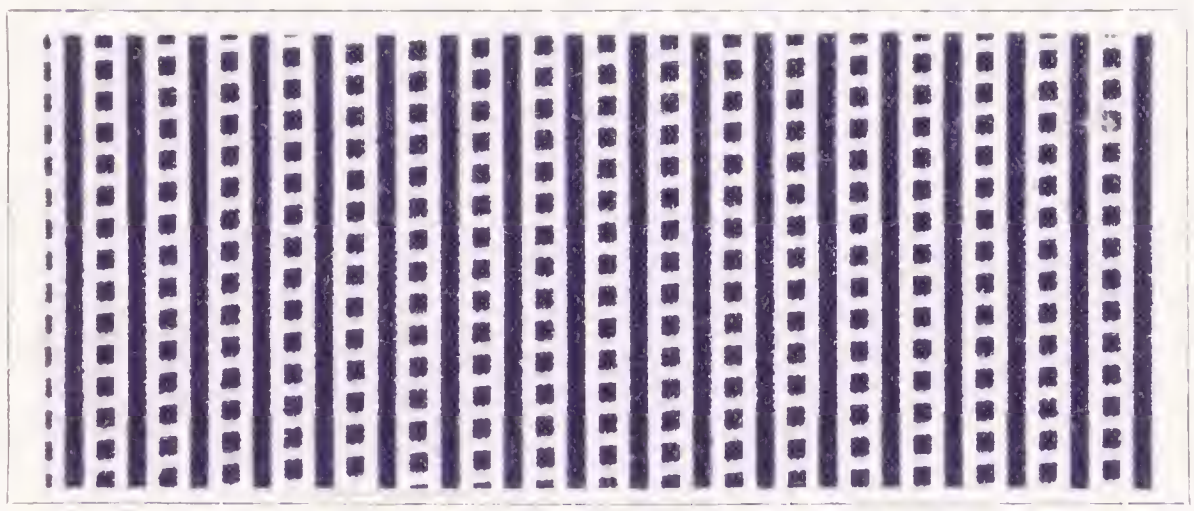
21



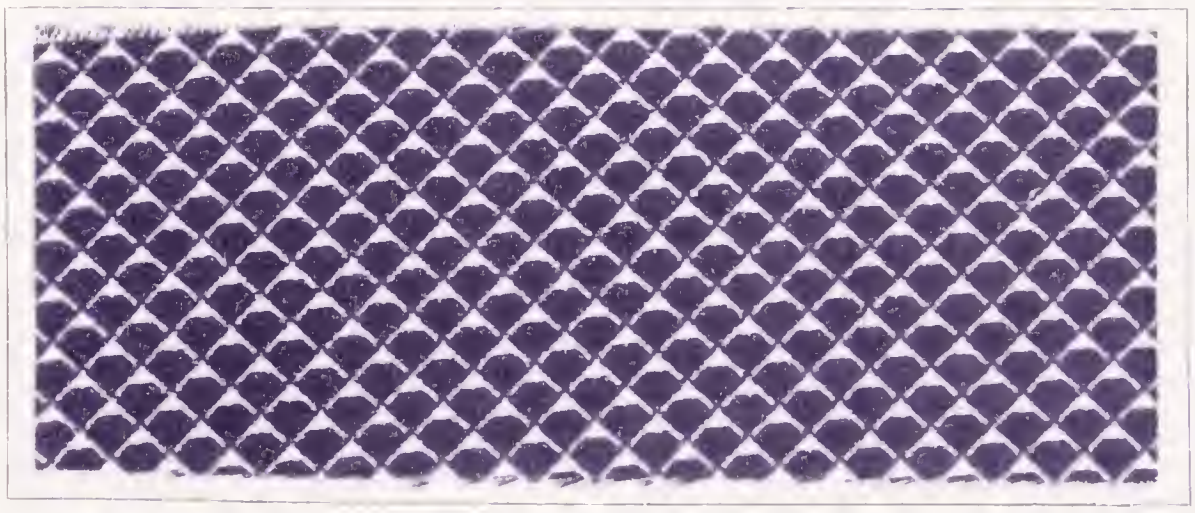
22



23

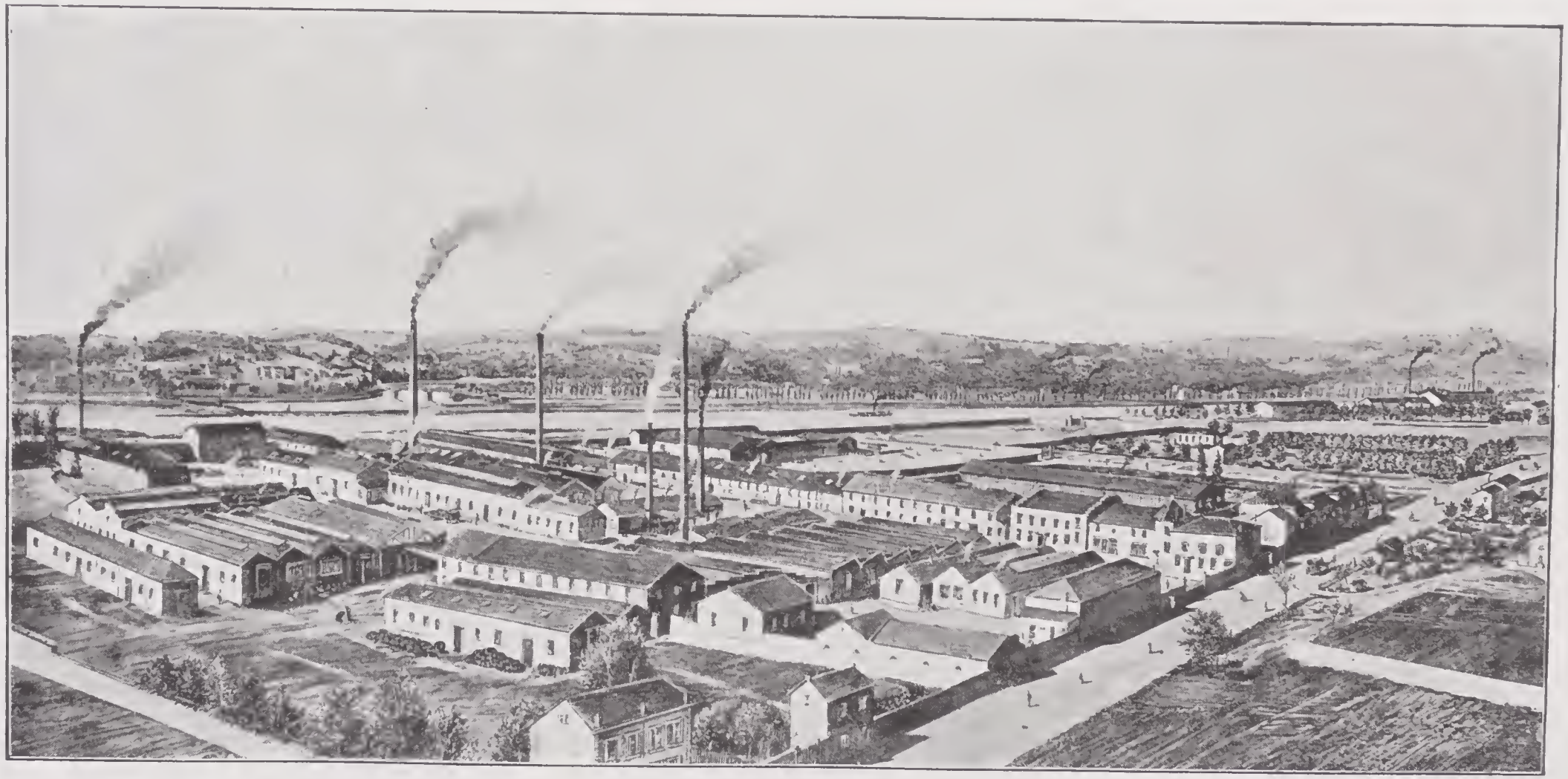


24



CASSELLA COLOR COMPANY, NEW YORK.

MANUFACTURE LYONNAISE DE MATIÈRES COLORANTES, LYONS.



Works "La Mouche".

RUSSIAN ANILINE COLOUR WORKS LEOPOLD CASSELLA & Co., RIGA.

Works at Riga.